Marlinton, Pocahontas Co., West Virginia August 5 1909

\$1.00 A Year

The Bacteriology of Tubeaculosis

FROM THE PARKERSBURG SENTINEL.

The following is an extract from t is paper which was read by Dr. L. O. Rose the bacteriologist, be-Bacteriology of Tuberculosis:"

called thetubercle Lacilli, you have organisms. accepted as a fact before the Con- hesitatingly be classed in the veg- nodules characterized as tubercles, ones who have to pay the cost. some sputum of a patient dead of cells, mushrooms, puffballs and since visiting this exhibit. Tuberculosis and allow you to view other fungi flourish in dark and under the microscope these death moist plaaces. The rapidity in dealing little plants. This unfor- which the mushroom develops, tunate mother was taken away in some growing to maturity in a the prime of life leaving a babe single night, will enable one to five months of age. You have appreciate more fully the rapidity present a brief statement showing that this mother was only one fungi called bacteria. among thousands that die yearly The extreme smallness of Bac-

germs except in captivity. If it growth of bacteria with a small been created in some quarters fore impossible except by hard germs with unaided eyes we could portion upon a slip of glass it is bill, which is now in conference, the motor boat, which is found on reptiles.

deep in the soil beneath our feet, ception. in our food and drink, in and on

of the polar region. causative factor of disease will no ganism. The saprophytes (refuse doubt remain as the most impor- eaters,) which constitute the greattant aspect of this growing science er number of bacteria are not only Yet from a practical point of view harmless to living organisms, but on iron ore, coal and lumber and development of the internal-comexists more friendly bacteria than form many important functions practically a unit when coupled motor boat and the motor cat; by unfriend, and that they exert a in the economy of nature including with the proposition that leather, the small farm engine, the facility wenderful influence for our wel- the process of fermentation and boots and shoes should also be of travel which these things and fare. These pacteria attact, dis- putrefaction. The parasites on placed on the free list. On the intregate and destroy dead bodies, the contrary are usually harmful income tax amendment to the bill attact and kill unfriendly living invaders, giving rise through the the Democratic vote was unaniorganism. Without bacteria we products of their growth in the mous, and on oil, tea and coffee, would be unable to make butter, body tisues to the so called infec- print paper and wood pulp it was which we have entered. The man cheese, bread and many other netious diseases, an example of substantially so. Still more sig- who is working for the buildin assist in the arts and industries, as The time required for the reprojects of the bill which particularly for the betterment of mankind the tanning of leather, curing of duction of a bacterial cell is about and more directly affect the con- He is working for the advance tobacco and vinegar making. Oth- 20 to 30 minutes. A remarkable suming masses and the cost of liv-ment of education and religion and er bacteria are highly constructive thing about bacterial division is ing, such as crockery, cutlerly, being able to convert important the rapidity in which a cell attains glassware, sugar, household goods chemical elements like carbon and maturity. It has been estimated generally, agricultural implements, and nitrogen from unfavorable that if bacterial multiplication blankets, flannels and hats, leather which can be utilized by higher ion of each cell took place as often their products, including cotton that they cannot be attended? Of afternoon train. Mr. Burgess is discovered for example that cer- each individual would in two days and manufacturers of wool-in tain forms of bacteria have the number 281,500,000,000 and that fact, on all articles affected by the reoperties of tapping the nitrogen in three days the progeny of a tariff which enter into the daily of the air through the structure of single cell would balance 148,356 needs of the people, the Democertain plants, and thus fertilize hundred weight or more than 74 cratic vote was in effect unanimous the soil by the deposition of this lons. ren lands have been made fertile Koch made himself immertal by and productive by this friendly his discovery of the tubercle ba- tive, moreover, that sulphate of and separation from friends by church, or social gatherings, they is a pure culture of these, friendly ies left in the bread.

attention.

What are Bacteria?

fore an interested audience at the living things there is a group of This is not an unreasonable deductuberculosis exhibit on Saturday organisms, which are usually call- tion since the true tubercule bacilli evening on the subject of 'The ed Bacteria. The term bacteria, have never been found growing loneliness of farm life is to be so far in the rear in this work, strictly speaking only refers to the except in animal tissue. No doubt you believe in "The rod shaped variety of the group, How many the germ of consump-Germ Theory" and that tuberculo- while the name of the Science tion enter the system? sis is due to one of the several Bacteriology, was derived from 1. By being inhaled or breathspecies. You have had the germ them, yet it refers to the whole ed into the lungs. demonstrated to you under the group, however, we reserve the 2. By being ingested with food more than simply an enormous roads. It should be borne in mind microscope, you have been shown term "bacillus" for the rod shaped or drink. diseased organs of loth man and variety only. Other terms used 3. By innoculation, the germ in getting the product of the farm only but a necessity, and that the beast produced by the little werd are germ, microbe and micro- entering through a cut in the skin. to market and the merchandise cost of their building is not ex-

teria prevents us from compre- the printing of a series of tables It is interesting to know that hending or comparing their size. these minute microscopal bodies Twenty-five thousand young ty- cratic members on all the more ing of work on the farm. It called bacteria, are found every- phoid fever germs placed end to important questions before the where. They surround us by the end will make a line an inch in Senate in connection with the billion, friendly, unfriendly and length, yet this large number tariff, and in doing so made a indifferent, yet no human being would still be invisible to the un- brief explanation. has viewed a single one of these aided eye. When one touches a were possible to see these deadly platinum wire and spread the tiny that in their action on the tariff manual labor. It makes possible attempt to protect our selves from found upon examination with the Democrats of the Senate have every river of the land. The deon the glass may be compared to the stars in the sky, and often voted with the protectionist Bacteria in general, are found sand on the shore, or any other majority," said the Texas Senator,

found in the lakes and rivers, in phites (refuse eaters) when their the tropical seas as well as the ice substance is derived from dead organic substances; parasites when the more important amendments The relation of bacteria as a they live on or in some living ormber that there are necessary to life, as they per-

sities as well as luxuries. They which is the germ of tuberculosis. nificant and important, on all sub- of good roads is directly working bination into favorable ones, went on unchecked and the divis- boots and shoes, iron and steel and forms of plant life. It has been as once an hour, the decendants of ties, cotton manufactures, wool

ment in it. Vast tracts of bar- Twenty-seven years ago Robert than those which were adopted. germ. The cake of yeast you buy cille, the specific cause of tubercu-

germs. You take them home The question is often asked, bagging were placed on the free germs. You take them home The question is often asked, bagging were placed on the free agricultural districts, young and strap, loosen up the hame string mix them dough, grow them on where did the consumption germ list in the Senate bill; which are old, crowd the cities in order to and unbuckle the belley band bethe back of the stove or in some originate? It is but reasonable to the principal benefits to farmers warm place until they form gas suppose that they were created in and fruit growers in the bill: ough to cause the bread to rise, the begining with the numerous then you very carefully place it in plants of the vegetable kingdom, the store and bake the bread, in to which class they belong howevo doing you drive the gas off and er they are of the lowest type of imum provision of the Senate ill the germs and eat their dead flowerless plants if not the most

actically all of our knowle ige When and how the germ first ng to bacteria, as to the part attact man? We have record they play as a causative factor of which indicate that man was heir ton Hospital for appendicences has learned during the to this disease many centuries ago, is expected to make last half century, nevertheless Possibly the first human being in-

many facts were known years ago, fected with the germ of tuberculoeven to the ancient, records of sis resisted its growth, but after which have been fruitful studies passing from one to another its and investigations. The epidemic virulence no doubt was increased nature of certain maladies was naturally among the first to attract deadly disease producing germ, which attacts and feeds on the hu-At the bottom of the scale of other animal or regetable life. mightily affecting social conditions tions that which we should do

Democrats Not Divided.

Last Friday, July 23, in the U. S. Senate, Senator Culberson took advantage of the opportunity to Aldrich tariff bill. He asked for showing the votes of the Demo-

"An impression seems to have been taken from the Congressional Record, and showed the votes on and on the final passage of the bill. Continuing his explanation, Mr.

Culberson said: hides, the Democratic vote was bustion engine, the benefit of the and was for much lower duties

"It was upon Democratic initiaammonia, paris green and London losis. "The Great White Plague." purple, oleostearin, and cotton and it was also due to Democratic initiative that the tax on tea and coffee was stricken from the max-

W. P. Myers, of Durbin, underwent an operation at the Hinton Hospital for appendicitis and is expected to make the usual

Preaching the Gospel of Good Roads.

be very far reaching in its effect, ought to be incessant workers for We are entering upon a period in the building of good roads. Let man being in preference to all which there is to be a revolution us not leave unto future generaand educational and religious ad- to-day. vancement, a period in which the The South, which has lingered Practically every organ and tis- which the farmer buys from the travagance, but simply a wise been told how many millions nay | Bacteria are minute single cel- sue of the human body are attach- depot back to the country place, investment. It may probably be be found in a small particle sputum led plants, which have no chloro-led the germ of suberculosis, how- The aggregate cost of bad roads stated without contradiction that

> ty in the Senate on the Payne- of a century has been the greatest continues on perpetually. material power in human advancement. The internal combustionengine makes possible the lessenmakes possible the pumping of water for use in country home and for stock. It makes possible many things around a farm and in connection with farm life hereto-

their attack as we would against microscope that the bacteria left been commonly and seriously di-velopment of this great engine for very broad and rapid building of good roads, for the automobile in in the air around and above us, standard for numbers beyond con- in beginning his statement. He its present uses for pleasure is but then presented the record to show the forerunner of the auto-truck Bacteria live chiefly on organic this impression to be unfounded. which soon will be found in use our bodies. Bacteria are also matter. They are called sapro- He said that his statement had throughout the country, wherever good roads and good streets make feasible the hauling in this way rather than by the slow and costly

wagon of the present.

"With the exception of the vote are being brought on us by the goats 10. good roads will bring about, th imagination is apt to almost stag ger us with the limitless possib advancement of the period upor all that makes for the higher civ ilization. Of what use are church and schools in country districts what value' to the grower are the products of farms which can only reach the market at a cost of trans portation by wagon which elimin ates all profit? The charm of country, the beauty of nature are ctured as reasons why farm life laily travel are available. The ife. It will increase the prosper- and social gatherings. ity of the farmers. It will be the

ought to be preached with the zeal of the missionary, and the farmer, the merchant, the manufacturer The good roads movement which and the banker, and above all else. has taken hold of the country will the women of the country districts

banished by the closer intercom- should take it up with greater munication between the people of energy than any other section, the agricultural districts with each, and in this way overcome the deother and with adjacent towns and ficiencies of the past and take the cities. Bad roads have meant lead in the construction of good loss, a wastage of time and effort that good roads are not a luxury from aconsumptive patient, yet you phyth, and they multiply only by ever the lung tissue is the most runs into the hundreds of millions the cost of the building of any have no positive proof that these division (5ssion.) With our pres- favorable and usual seat of the in- of dollars annually, and the far- good road anywhere in this counstatements are true. This fact out knowledge bacteria, yeast cells fection. The lesin produced by mers and the people away from try will bring about an increase in must be proven to the public and and other like organisms, may un- these germs are little lumps or the centers of population are the the value of adjacent property, and this increased value will be tagious and infectious diseases can etable kingdom among the lower from which the disease derives its The automobile, the use of based on increased earning possibe stamped out. "Seeing is believe order of flowerless plant (Thallo- name, suberculosis. No doubt you which is helping to stimulate an bilities, greater than the total cost ing." At the conclusion of this phytacalgae and fungi) and prob- have become quite familiar with interest in good roads, is only an of the construction of the road. talk I shall prepare a slide from ably belong to the fungi. Yeast these little nodules or tubercles expression or exponent of new In view of this fact, no town, ro conditions upon which all civiliza- community, is too poor to build tion has entered. We have come good streets and good roads, for upon a time when the gas or inter-spending money for such a pur-nal combustion engine has started pose, if wisely spent, is the maka revolution equally as important ing of an investment that immediand equally as far-reaching in its ately is repaid to the community effect, as that of the locomotive, by the enhancement in value of statistics before you which proves of the growth of those minute the record of the Democratic par- which for the last three quarters property, and this enhancement

> Let the good work go on .-Manufacturers' Record.

## Agricutural Statistics.

From the Assessor's report to the State Board of Agriculture we have the following statistics of the agricultural resources of the county:

Wheat, 1042 acres, 11,583 bu. Oats 2186 acres 17,504 bu. Corn, 3366 acres 107,761 bu Buckwheat, 955 acres 7657 bu Potatoes, 307 acres, 32,716 bu. Timothy, 14,748, 14,402 t Clover 565 acres 700 tons.

Poultry, number 38,461, value \$11,728. Eggs, No. 73,842, val. \$16,665.

Apple trees, 54,251, 117,714 bu. Pear trees, 1472, 863 bushels. Peach tress 3498, 746 bushels Cherry trees, 1106, 479 bu. Plum trees, 973, 369 bushels.

Number of stock under one When one begins seriously to year old: horses, 231; cattle, contemplate the changes which 2231; sheep, 8763; hogs, 2746

Horses and mules, 3017, value \$239,078. Cattle, 10,898, val. \$249,398.

Sheep, 27,216, val. \$105,520. Hogs, 3963, value \$10,966.

Number of sheep killed by dogs from July 1, 1908 to July 1. 1909, 106, valued at \$552.25.

H. W. Burgess, Esq., of Hillsboro, Pocahontas county, visited his son, F. A. Burgess, at Ronce verte last week. He was in Lewburg Monday morning on his way to visit his daughters, Mrs. Chas. Bolton and Mrs. Coe Bransfond, in Williamsburg district, but, receiving a message that his for five or six months of the year he returned to Hillsboro on the a native of Lewisburg, is now sbout 77 years of age and during he War served as a soldier in Capt. Moorman's company of the 14th Virginia Cavalry.—Greenrier Independent.

\* \* \* \* \* "There were no should appeal to the people, but laced shoes or corsets in those days. to do it thoroughly, in the shortest when farm life means drudgery When the women came home from eason of bad roads, it is not to be did not have to slip into a private wondered at that the people of the dressing room to lengthen the back fall session Sept. 1, 1909. get a place where modern conven- fore they could breathe freely as nces and modern comforts to God intended they should.—Old Settler in Nicholas Chronicle.ange this. It will add a thou- the Mountain. In Pocahontas it is andfold to the charm of country the men who are driven to Church

Mrs. M. D. Smeyers, of Durbin

THE LAZY BUG.

The following from the Baltimore News was sent us by a close observer who fears that the Bug is begining to make its appearance felt in this county. It will be noticed that this section is included in the location where it is preval-

Washington .- The book worm, or "lazy bug," as it has been shown to exist in the southern States, recording in investigations of the physical condition of army recruits, will form an interesting chapter in the forthcoming report of the Surgeon General of the Army, and probably will lead to a widespread effort on the part of boards of health in the Southern States to eradicate this disease, which a few years ago was brought prominently to the attention of the world in connection with the Porto Ricans.

When the hookworm referred to in the medical world as uncinariasis was declared to be prevalent in Porto Rico, resulting in a tendency to indolence on the part of a patient who otherwise appeared in usual health, there was no suggestion that this peculiar parasite infected people in the United States. Through the very careful and thorough methods that have been adopted in the United States Army, both in the selection of recruits and in the care of men after their enlistment, this disease has been shown to exist to a large ex-

This investigation has been progressing quietly during the last six or seven months, so that when Surgeon General Torney makes up his annual report he will have much date to prove the prevalence of the hookworm among soldiers enlisted faom Southern States. These recruits passing through the Army depot at Fort Slocum, N. Y., were examined to the number of 140, 109 of them being infected with the parasite. West Virginia, Virginia, North Caralina, South Carolina, Georgia, Florida, Alabama and Tennessee all supplied recruits that were infected. While the hookworm was so largely prevalent, in only two instances in this series of investigations was the anaemia sufficiently severe to cause their rejection. After being treated all of the infected soldiers gained in weight and improved in physical condition generally.

Following this investigation of recruits it was discovered that uncrinariasis was a common disease throughout the Southern states. It is estimated by army surgeons that 50 per cent, of the recruits in the army today from the rural district of North Carolina, South Carolina, Georgia, Florida, Missippi, Alabama and Louisiana will show nookworn infection.

Hides have been revised downward by the Conference Committee, and so the long suffering consumers will be able to get their shoes a third of a cent per pair cheaper. The duty on hides was the only direct benefit that the farmers derived from the Dingley tariff. - Fayette Tribune. (Rpe.)

## West Virginia's Greatest Business College.

We wish to call our reader's attention to the superior advantages of the Capital City Commercial College Charleston, W. Va.

If young people expect to prepare themselves for business and want time and at the least cost, send at once for catalog of this college and make arrangements to enroll in the

ricultural districts, young and strap, loosen up the hame string. Positions are secured all graduates and the demand for them exceeds the supply. The business world is crying out for young men and women to come and help do nstruction of good roads will Things are different on this side of the work of the world. Charleson, the capital is a clean, moral city and you can send your sons and daughters there with perfect most powerful factor in stemming the movement of population to-underwent a severe operation at ify yourself for it at the Capital ward the city and making the Hinton Hospital last week, for a City Commercial College, Charcountry boy and girl happy at chappication of troubles. Her leston, W. Va. Send for their name. The gospel of good roads husband reports her doing nicely, handsome free catalog.

## DERIVATION OF DOLLAR MARK.

Has Long Been Subject of Discussion. and Many Are the Theories
Advanced.

The origin of the sign \$, as repre enting the unit of our money system, has long been the subject of discussion and not a little doubt. It has been variously accounted for, the derivations generally advanced being:

1. A combination of the letters U.S. After the adoption of the federal constitution these initials were pre fixed to the federal currency, and, cording to many who have given were simply run together so as make the magic \$, the loop of the T disappearing in the operation.

2. An adaptation or modification of 8/8, once used to denote a piece o eight reals, or, as a dollar was then

called, a piece of eight.
3. A form of H. S., which was used to mark the Roman unit of money. 4, A contraction of P. and S., used in Spanish accounts to indicate peso.

5. A device formerly seen on the re verse of a Mexican Pillar dollar, (a Spanish coin), representing the Pillars of Hercules, connected by a scroll displaying the words Plus Ultra.

6. A contraction of the Spanish "fuertes," (hard), to distinguish the silver, or hard, dollar from paper

In all of these cases it must be admitted that there is no little speculation, and up to this time there is no prospect that the question will ever be definitely settled. The student of the subject can take his choice, and doubtless will be able to find some kind of authority for any one of these diverse explanations.

## ORIGIN OF THE RESTAURANT.

May Be Said to Have First Appeared In England About the Time of Shakespeare.

In primitive times, the only places n London where the public could be entertained with food had been the cooks' shops. The famous East Cheap was a great thoroughfare, down which the stalls of the butchers alternated with those of the cooks. You chose a joint at the flesh market and you carried it next door to be cooked for you by a certain hour. If you wished for wine, you must bring that with you, for the cooks sold no liquor, although they seem to have provided. as time went on, more and more of the natural accompaniments of meat, such as bread; vegetables and pastry. This habit continued until well into the reign of Elizabeth, and so long as such an inconvenient custom precomfort for any citizen who chose to much trouble with porterage and baskets as a country party has to-day at a picnic. But about the time that markable change took place in the customs of the town, and the practice: of public hospitality and entertainment was singularly facilitated. The nature of this change lay in the sudden development of the tavern and the consequent withdrawal of the cookshop. The worshipful company of Pastelars, as the cooks were called, ceased to enjoy the monopoly of providing hot meals.

The shortest and busiest street in the world is Mansion House street London. It is only about 500 feet long, and runs between the mansion house, the official residence of the lord mayor, and the Union bank of London, and everything and everybody that passes between "the city" which is the ancient section of the

World's Busiest Street.

metropolis, and the rest of London have to go that way. Not long ago policemen were stationed to count the vehicles, two on either side. They counting is very tedious work and acts upon the nerves. One set of counters counted 37,616 and the other two relays reported totals between these two extremes.

Pineapples in Queensland. Altogether there are some 3,000 acres devoted to pineapple cultivation in Queensland, giving a yield of something like ten million pines a year.

Two crops are gathered during the 12 months: Most of the owners of the plantations started without capital, and are now reaping about \$250 an acre net profit. It is an industry from which returns are quickly obtained. Fifteen months after planting the grower is securing his first crop. Next year he should double his crop, because, like the banana, once the apple has borne fruit the stalk dies down, and its place is taken by one or more suckers, which, in their turn fruit and die. A cider of remarkably fine quality can be made from the

Extremely Dry Weather. Several Kansans were talking of dry eather in the state in the earlier

"I drove through a western county a number of springs ago," said one of them, "and it hadn't rained for a

Pretty dry, isn't it?" I ventured to e native. "Bet your boots it's dry,' he re

"See that old sow over there?" old him I was looking at her. (ell," he went on, 'I had to drive her down to the creek, three miles away, and soak her for three days be for she would hold slop. She was mighty dry, I tell you."